Federal Way Transit Extension

Alternatives Analysis Update

March 2013

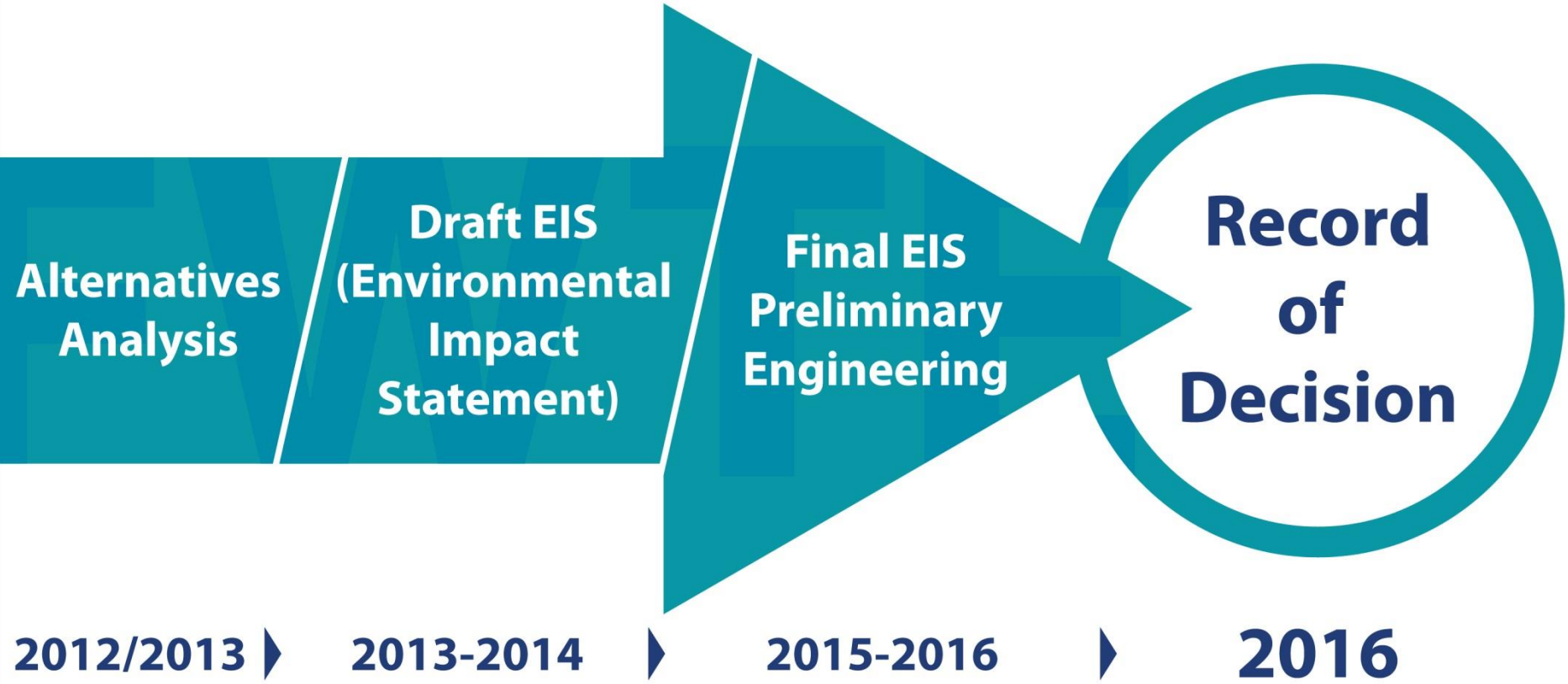
SoundTransit
RIDE THE WAVE

Federal Way Transit Extension

Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

Schedule

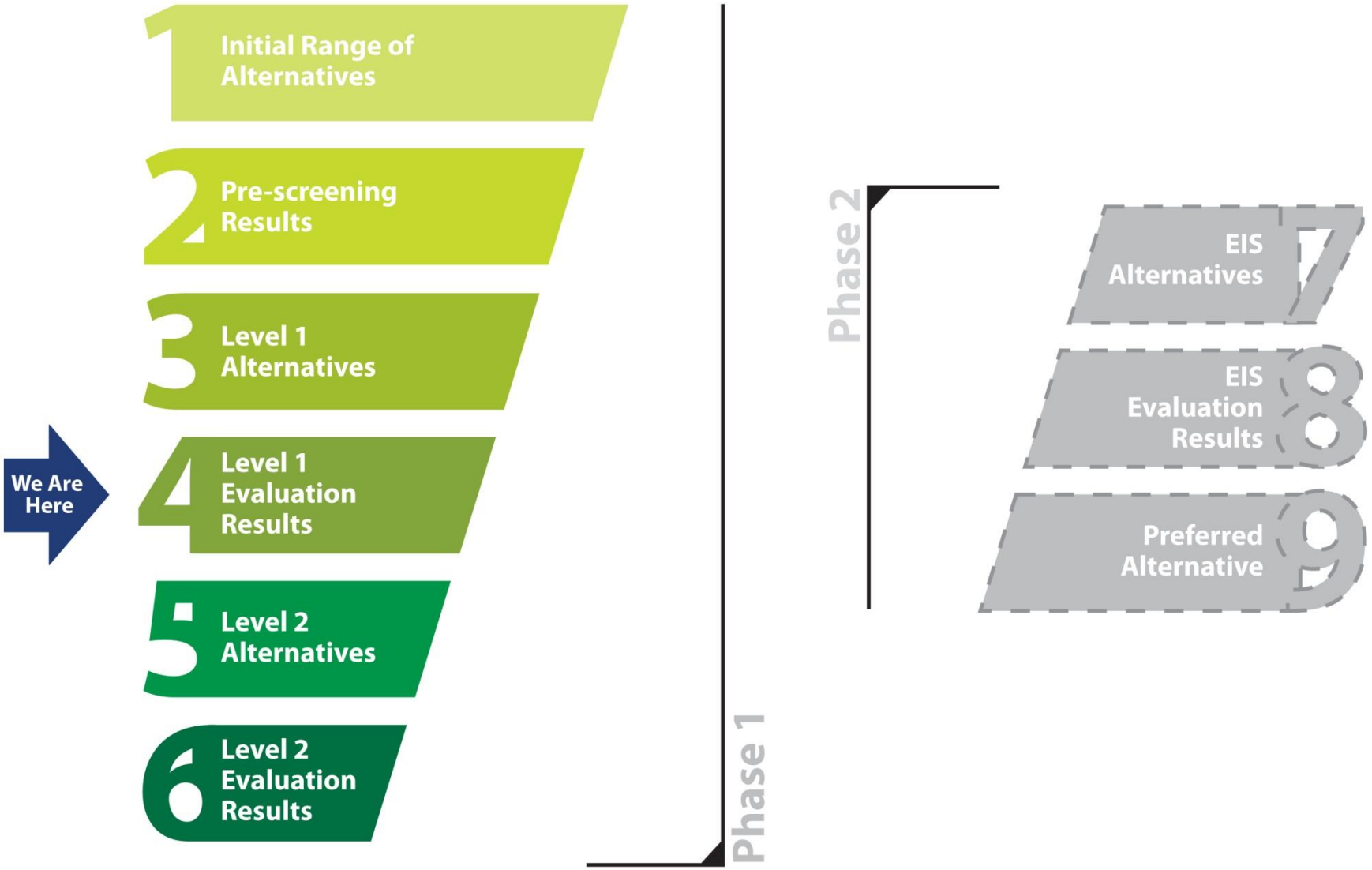


Federal Way Transit Extension

Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

Alternatives Analysis Process

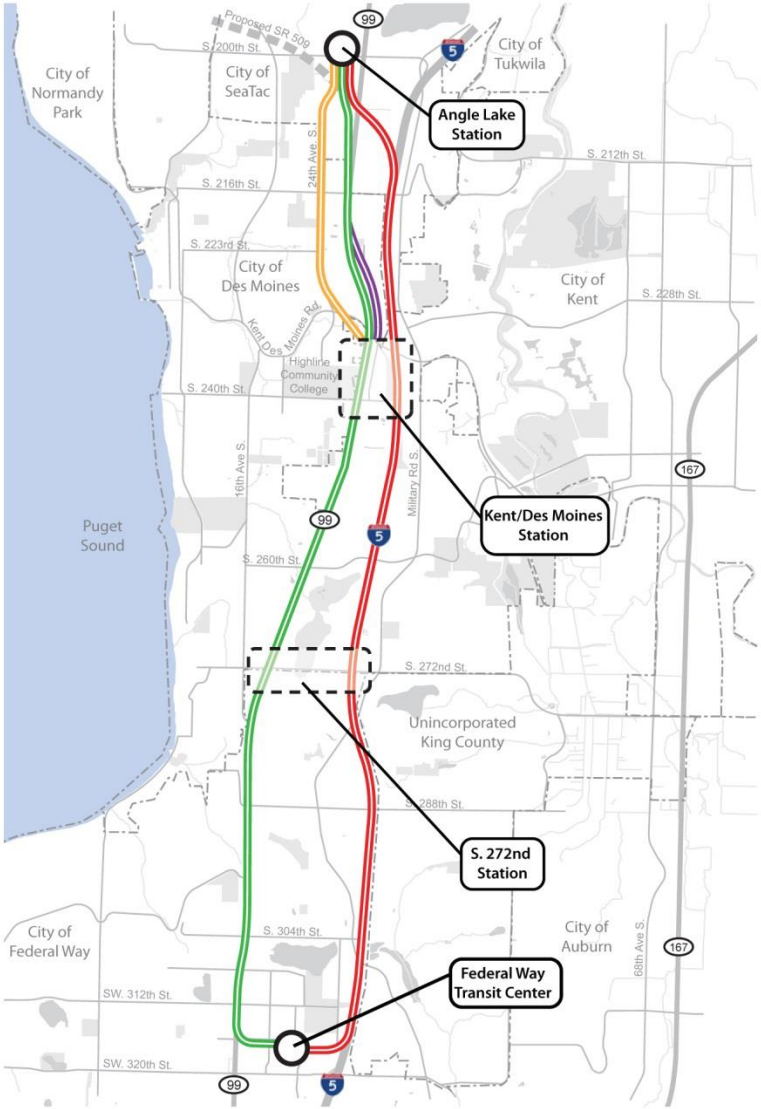


Federal Way Transit Extension

Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

Initial Range of Alternative Corridors



Legend

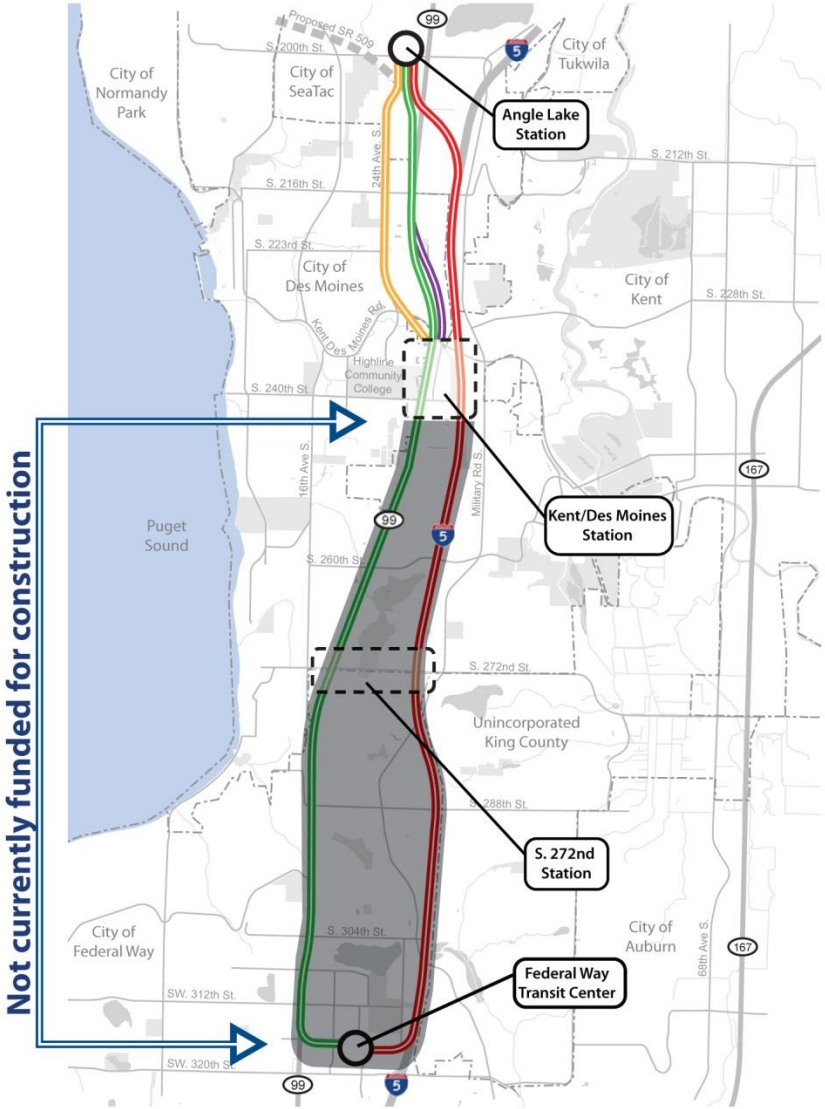
- I-5 Corridor
- SR 99 Corridor
- 30th Avenue S. Corridor
- 24th Avenue S. Corridor
- Station Location/ Crossing Option
- Option for alignment crossing
- Not currently funded for construction

Federal Way Transit Extension

Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

Initial Range of Alternative Corridors



Legend

- I-5 Corridor
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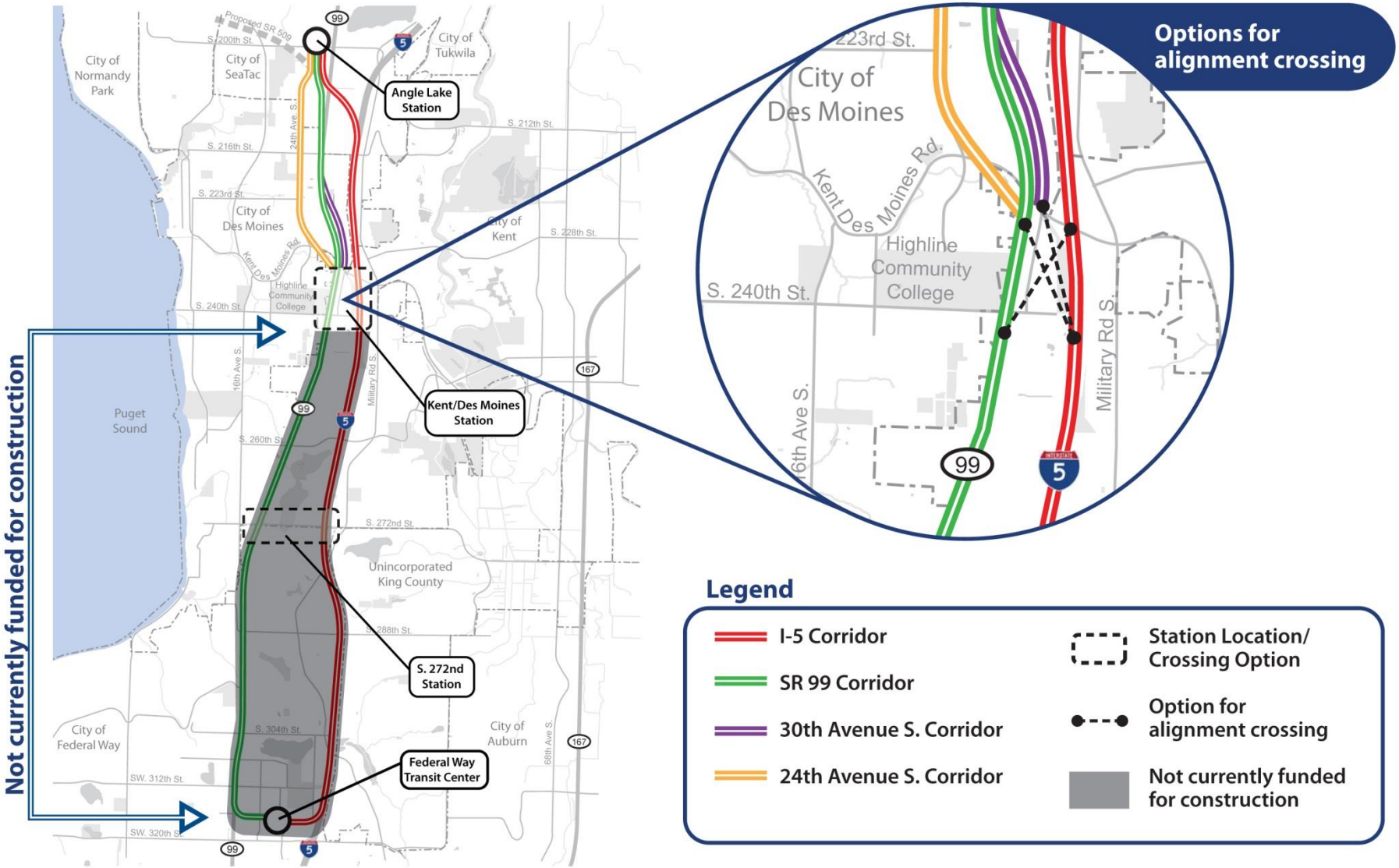
Federal Way Transit Extension

Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

Initial Range of Alternative Corridors

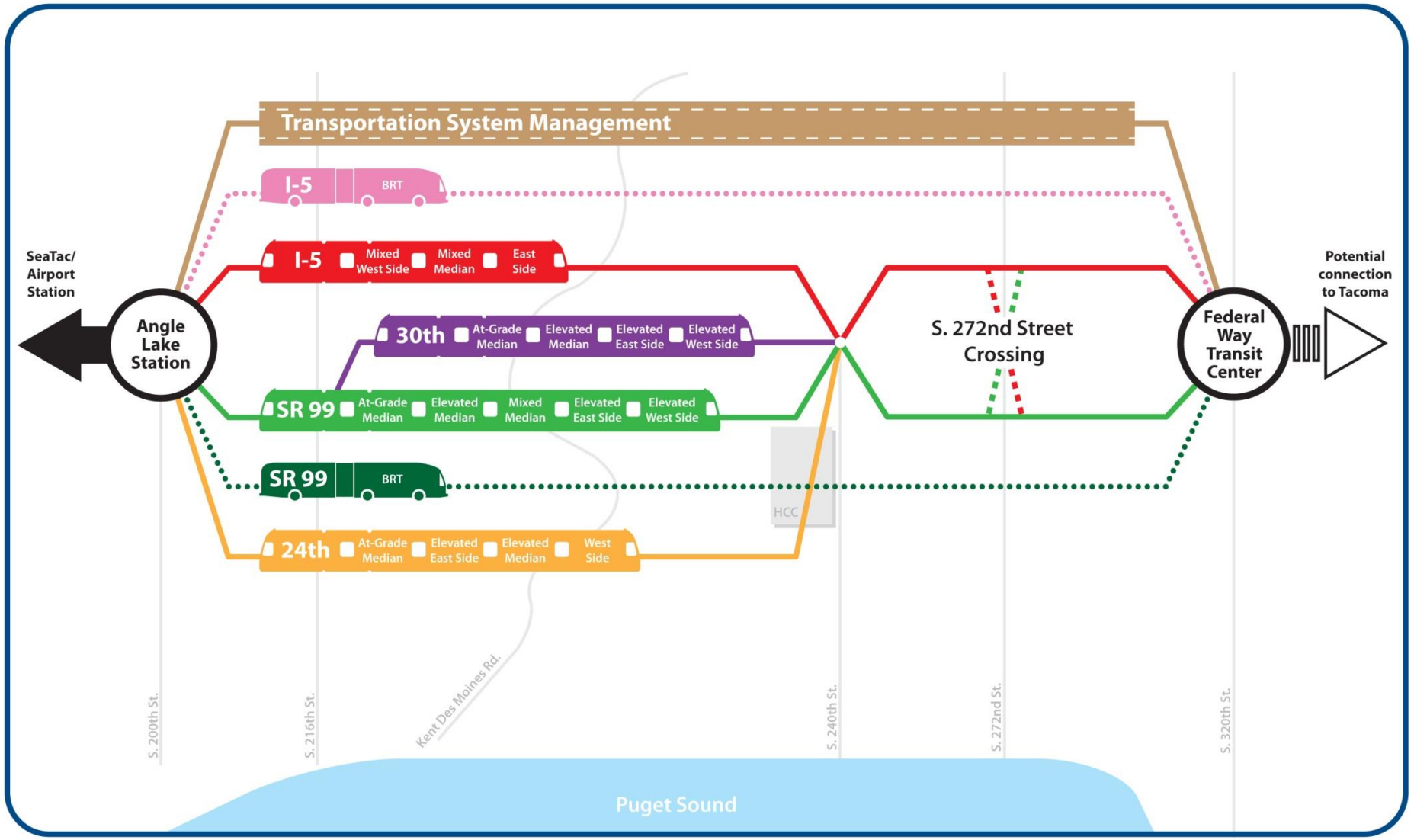


Federal Way Transit Extension

Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

Initial Range of Alternatives

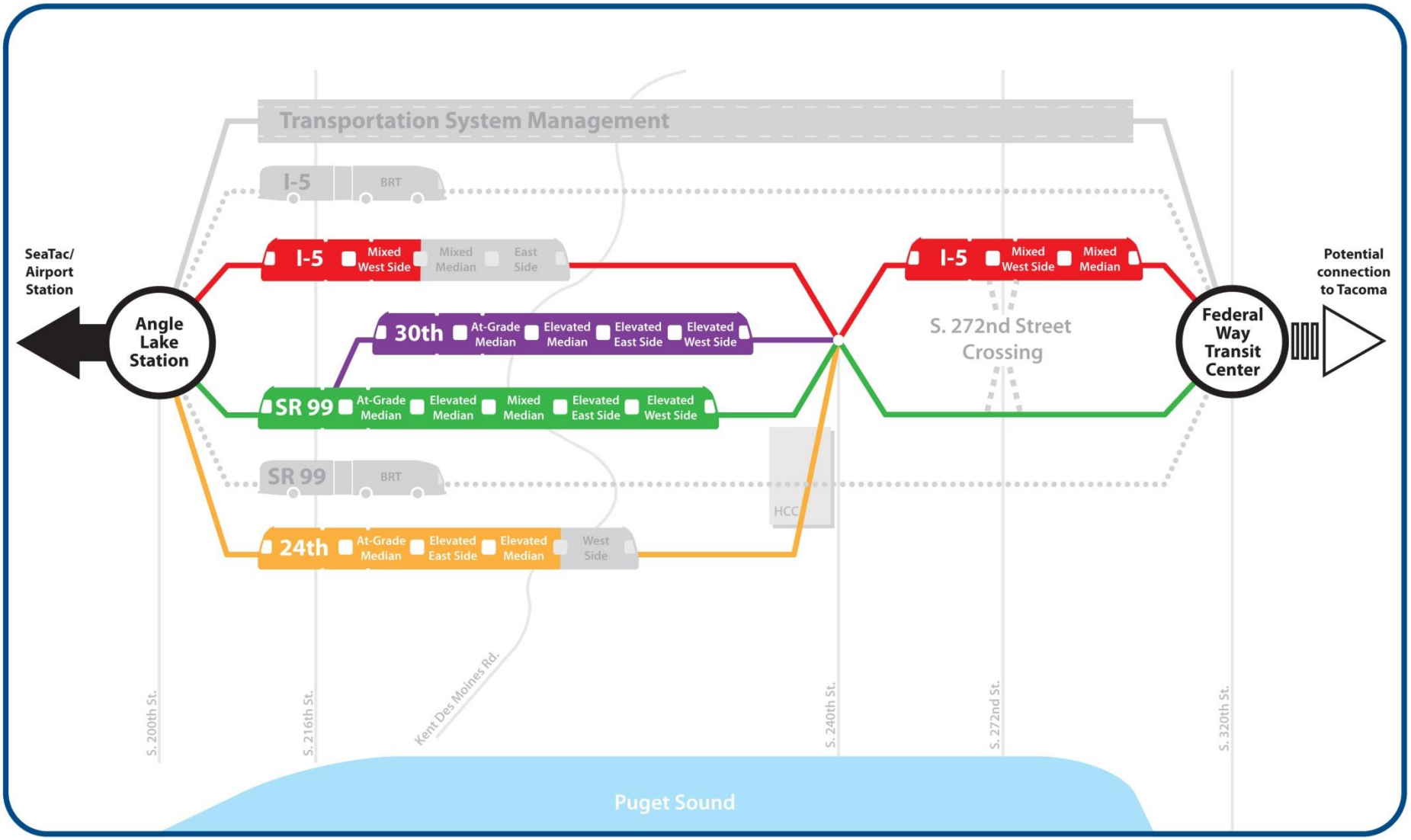


Federal Way Transit Extension

Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

Pre-screening Results

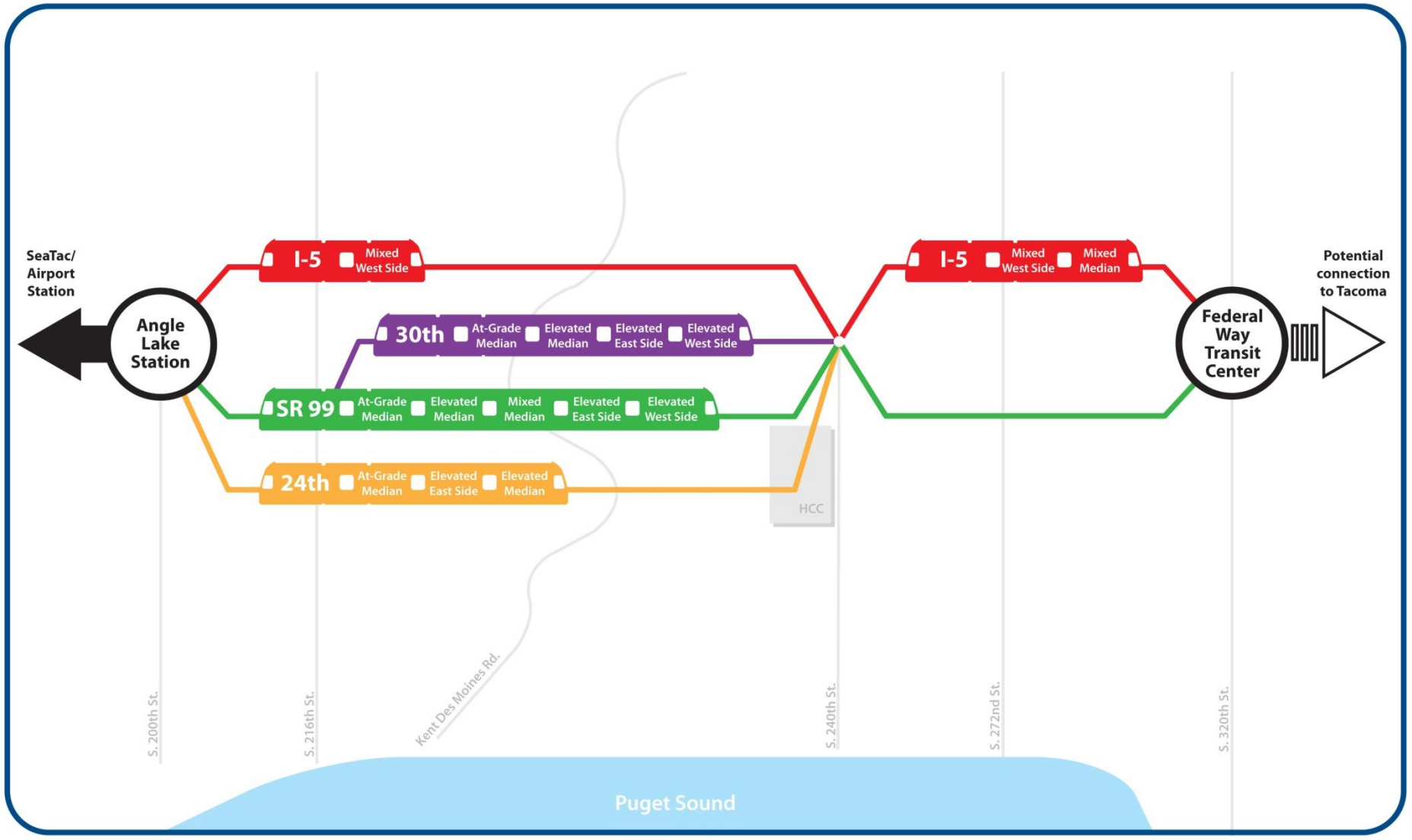


Federal Way Transit Extension

Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

Level 1 Alternatives

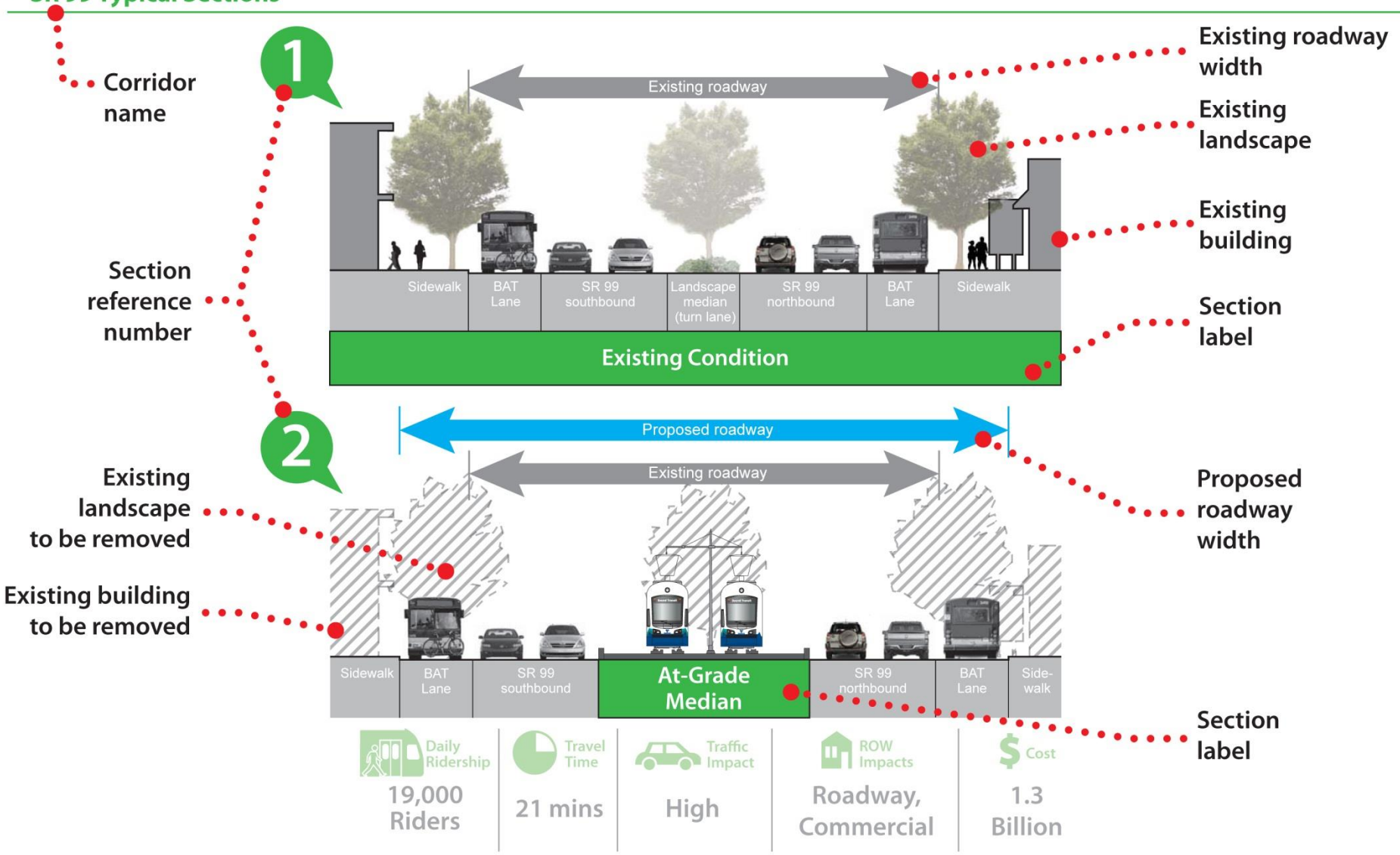


Federal Way Transit Extension
Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

How To Read Typical Section

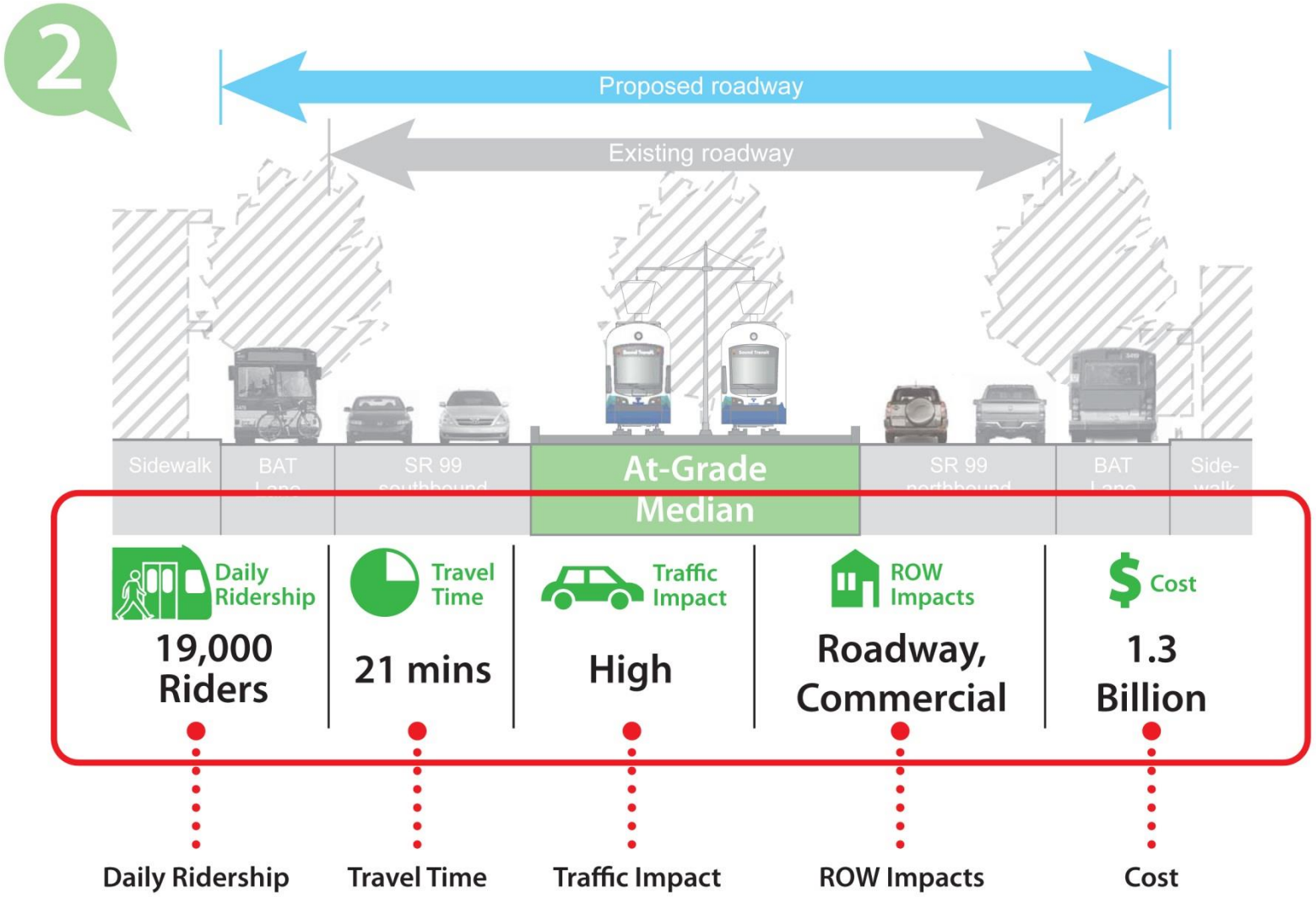
SR 99 Typical Sections



Federal Way Transit Extension
Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

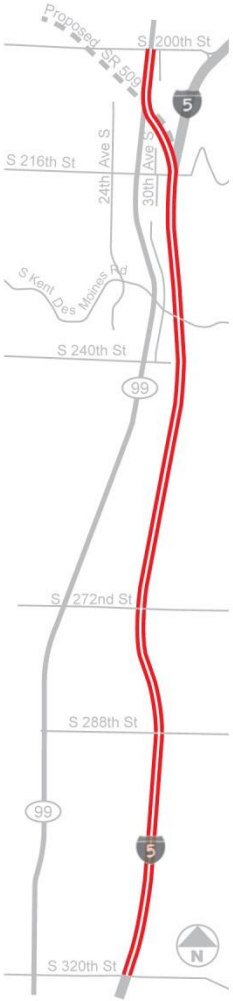
How To Read Typical Section

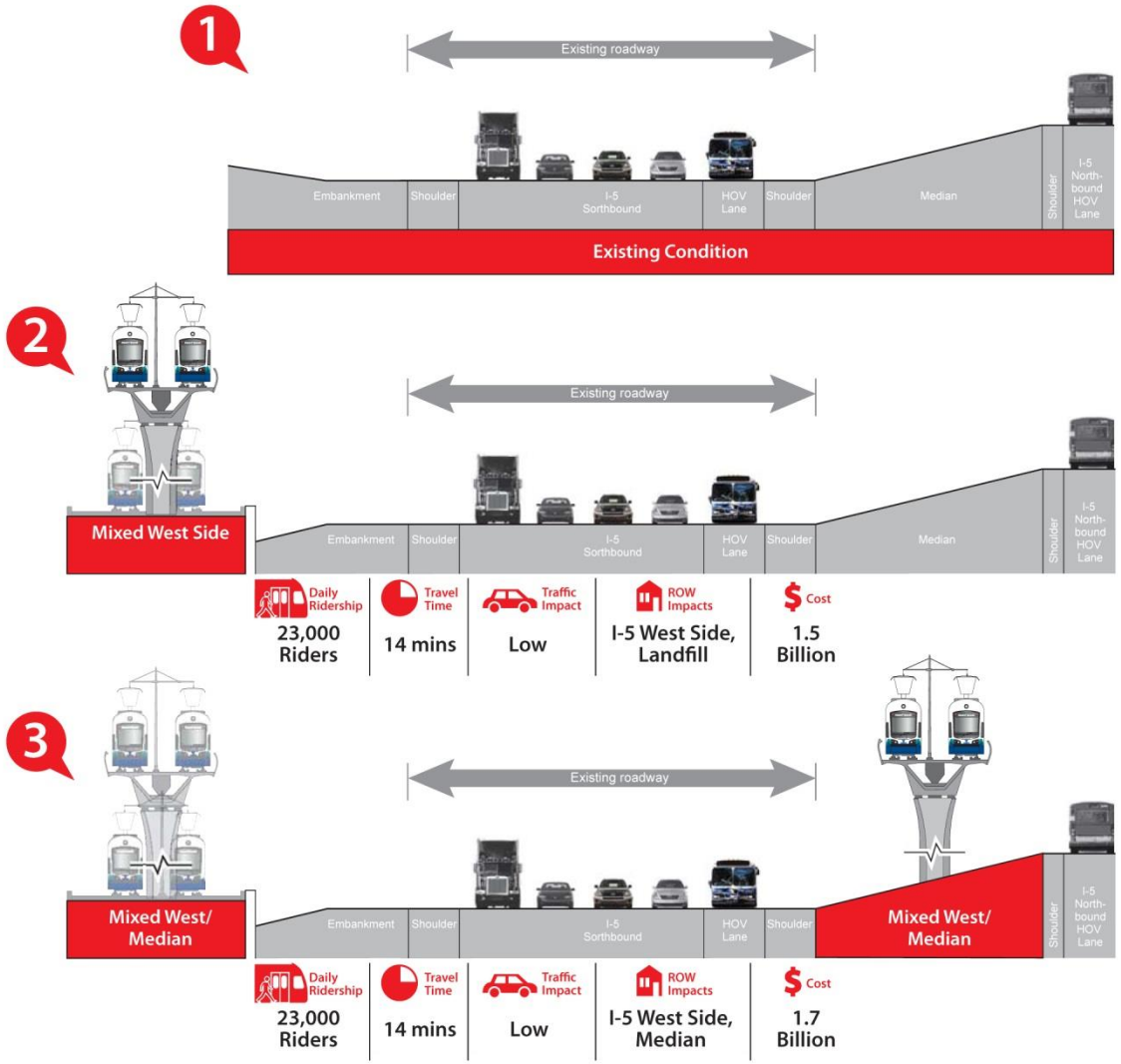


Federal Way Transit Extension
Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

I-5 Corridor Typical Sections

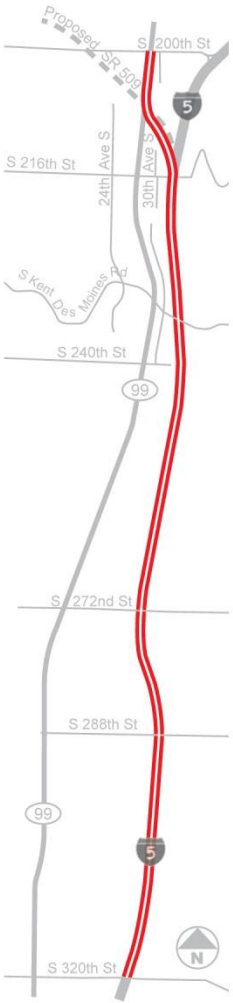


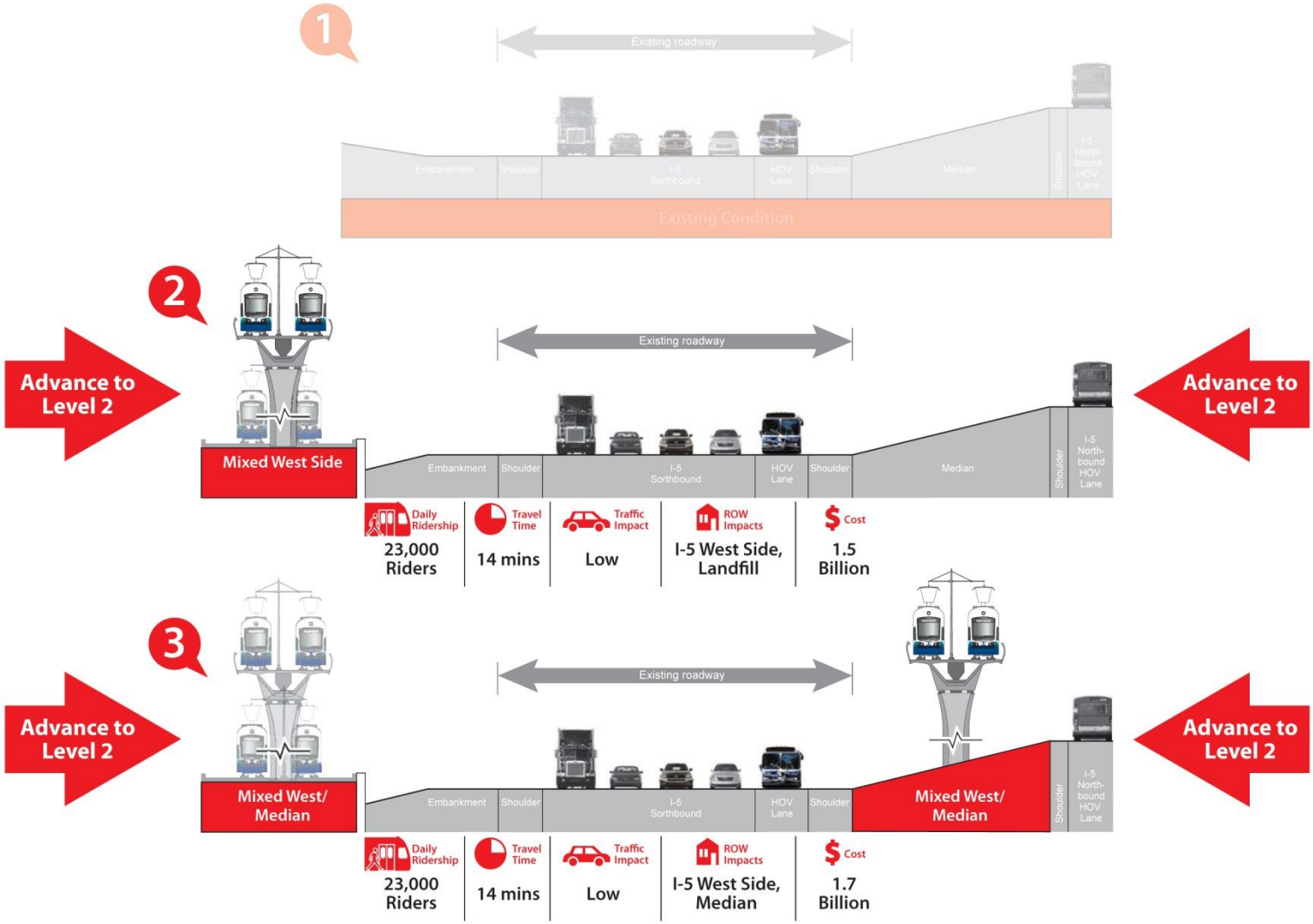


Federal Way Transit Extension
Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

I-5 Corridor Typical Sections





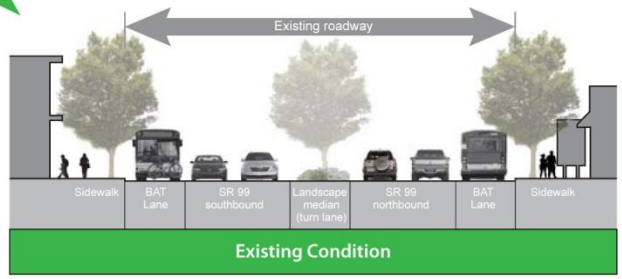
Federal Way Transit Extension

Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

SR 99 Corridor Typical Sections

1



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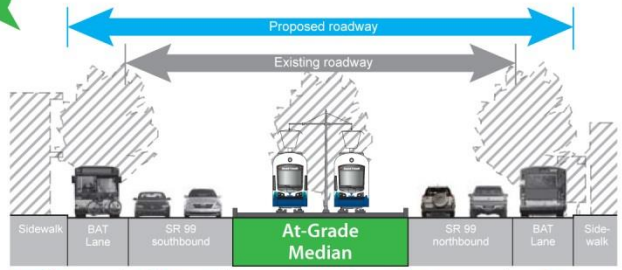
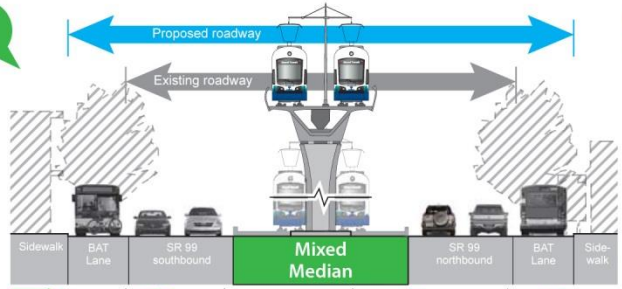


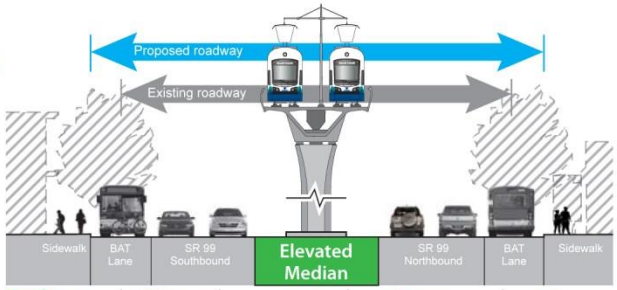
Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
19,000 Riders	21 mins	High	Roadway, Commercial	1.3 Billion

3



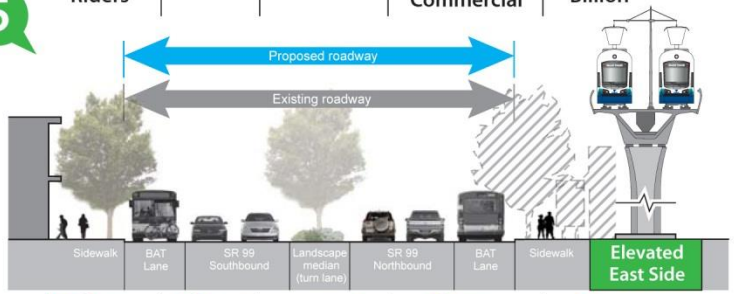
Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
21,000 Riders	18 mins	Moderate	Roadway, Commercial	1.3 Billion

4



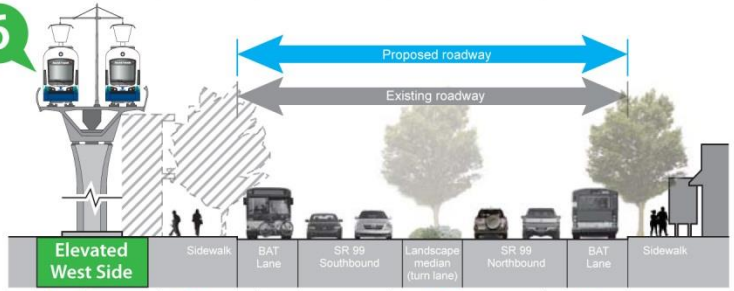
Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
23,000 Riders	15 mins	Moderate	Median, Some Commercial	1.7 Billion

5



Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
23,000 Riders	15 mins	Low	Commercial - East Side	1.9 Billion

6



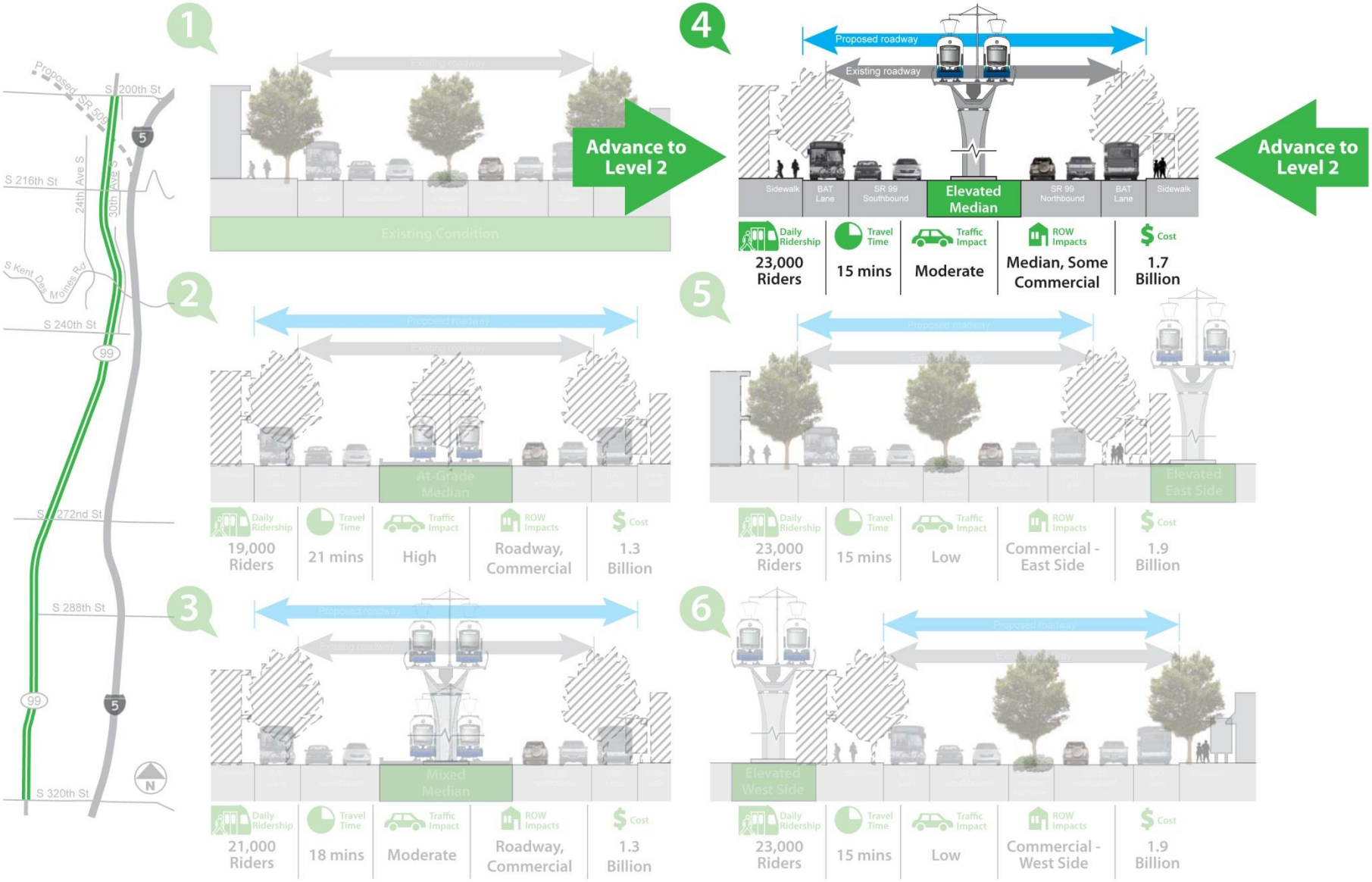
Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
23,000 Riders	15 mins	Low	Commercial - West Side	1.9 Billion

Federal Way Transit Extension

Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

SR 99 Corridor Typical Sections



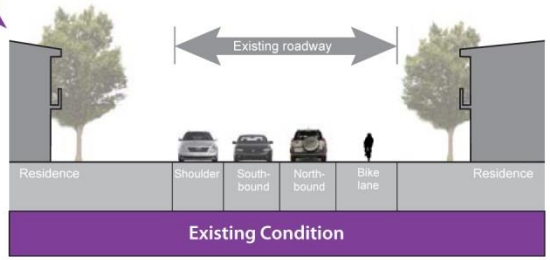
Federal Way Transit Extension

Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

30th Avenue S. Corridor Typical Sections

1



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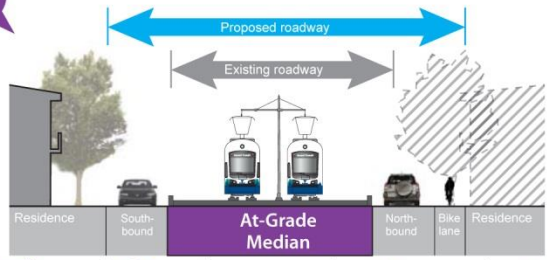
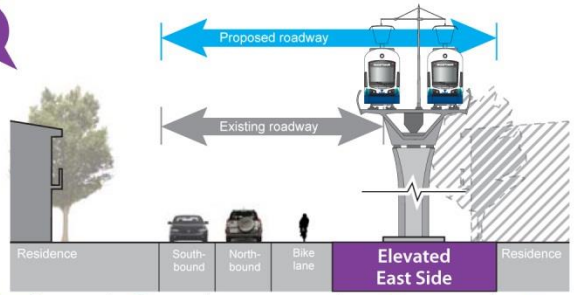


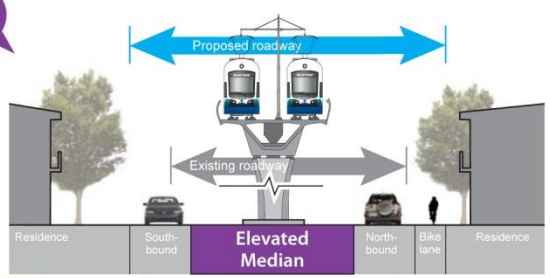
Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
19,000 Riders	21 mins	Moderate	Roadway, Residential	1.7 Billion

4



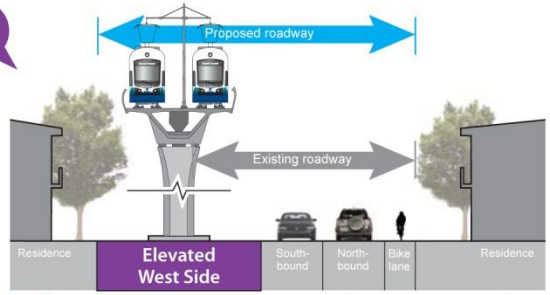
Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
23,000 Riders	15 mins	Low	Residential - East Side	1.7 Billion

3



Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
23,000 Riders	15 mins	Moderate	Roadway, Some Residential	1.7 Billion

5



Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
23,000 Riders	15 mins	Low	Parking - West Side	1.7 Billion

Near S. 240th Street, the 30th Avenue S. and the 24th Avenue S. Alternatives could connect to any alternative in the SR 99 or I-5 corridors; for purposes of this analysis, they are assumed to connect to the SR 99 Elevated Median Alternative.

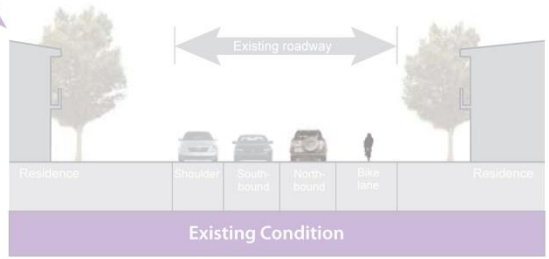
Federal Way Transit Extension

Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

30th Avenue S. Corridor Typical Sections

1



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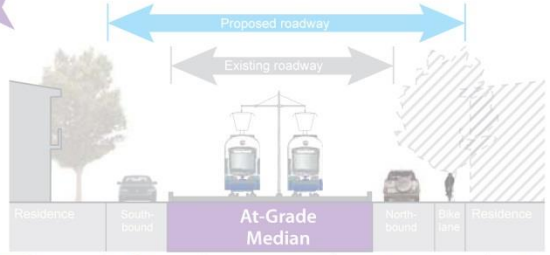
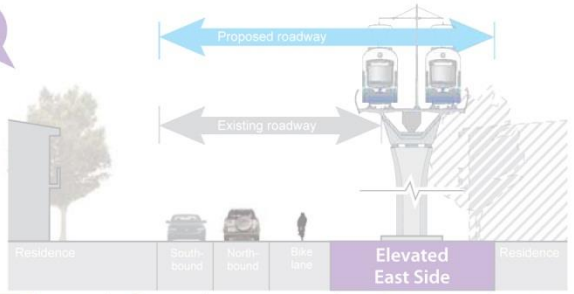


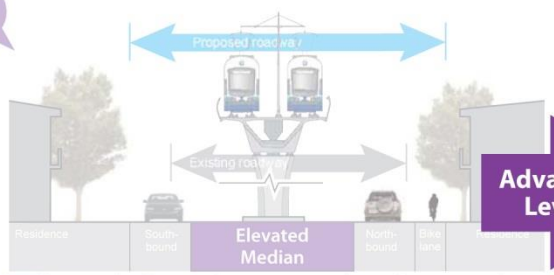
Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
19,000 Riders	21 mins	Moderate	Roadway, Residential	1.7 Billion

4



Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
23,000 Riders	15 mins	Low	Residential - East Side	1.7 Billion

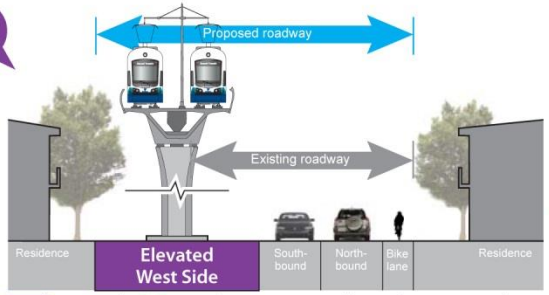
3



Advance to Level 2

Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
23,000 Riders	15 mins	Moderate	Roadway, Some Residential	1.7 Billion

5



Advance to Level 2

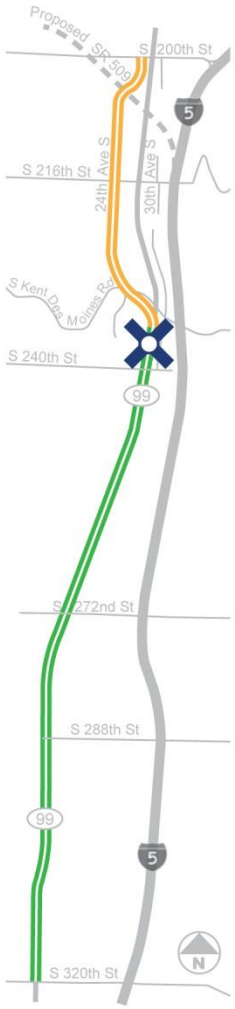
Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
23,000 Riders	15 mins	Low	Parking - West Side	1.7 Billion

Near S. 240th Street, the 30th Avenue S. and the 24th Avenue S. Alternatives could connect to any alternative in the SR 99 or I-5 corridors; for purposes of this analysis, they are assumed to connect to the SR 99 Elevated Median Alternative.

Federal Way Transit Extension
Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

24th Avenue S. Corridor Typical Sections



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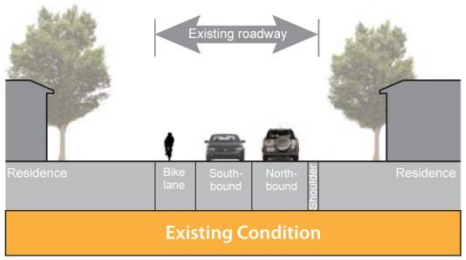

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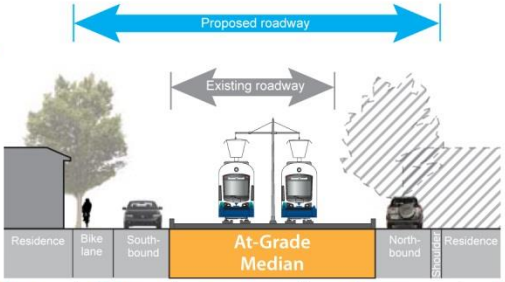
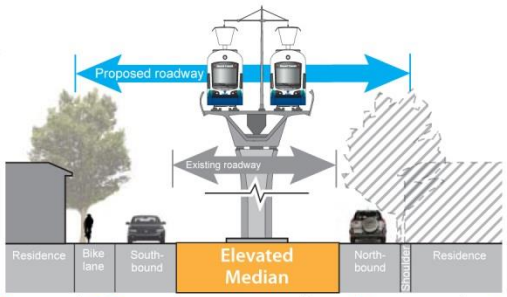


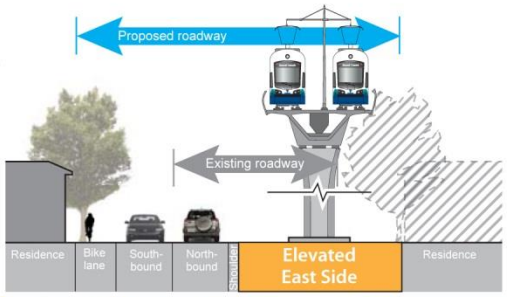
Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
19,000 Riders	22 mins	Moderate	Roadway, Residential	1.7 Billion

3



Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
23,000 Riders	15 mins	Moderate	Roadway, Some Residential	1.7 Billion

4



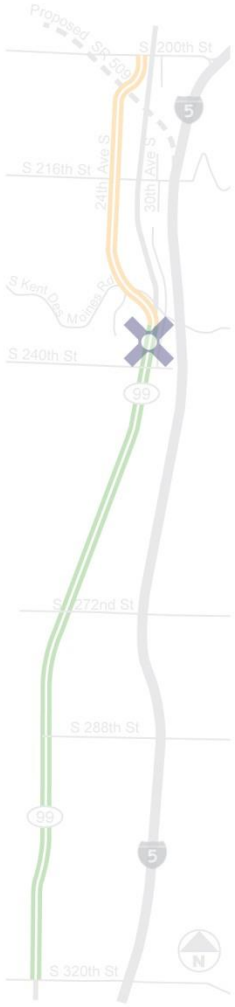
Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
23,000 Riders	15 mins	Low	Residential - East Side	1.7 Billion

Near S. 240th Street, the 30th Avenue S. and the 24th Avenue S. Alternatives could connect to any alternative in the SR 99 or I-5 corridors; for purposes of this analysis, they are assumed to connect to the SR 99 Elevated Median Alternative.

Federal Way Transit Extension
Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

24th Avenue S. Corridor Typical Sections



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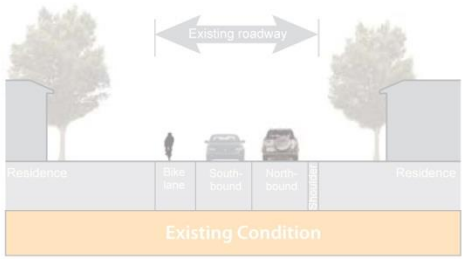

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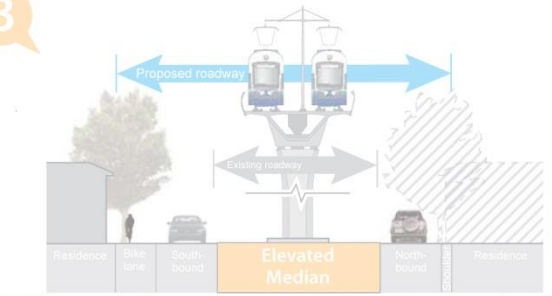
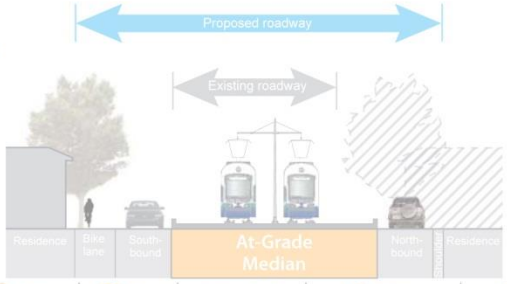


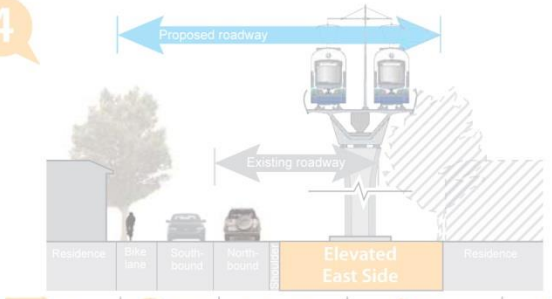
Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
23,000 Riders	15 mins	Moderate	Roadway, Some Residential	1.7 Billion

2



Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
19,000 Riders	22 mins	Moderate	Roadway, Residential	1.7 Billion

4



Daily Ridership	Travel Time	Traffic Impact	ROW Impacts	Cost
23,000 Riders	15 mins	Low	Residential - East Side	1.7 Billion

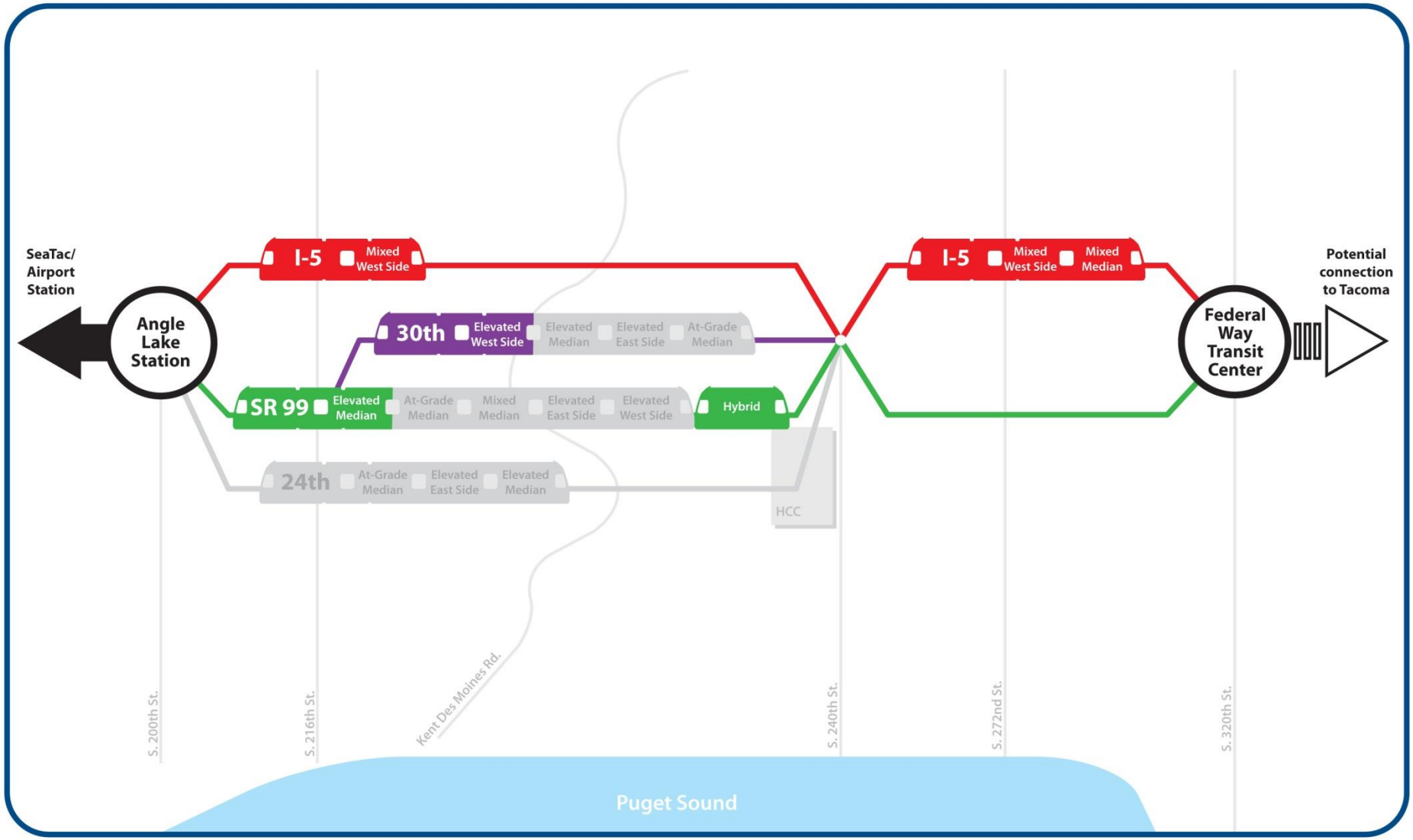
Near S. 240th Street, the 30th Avenue S. and the 24th Avenue S. Alternatives could connect to any alternative in the SR 99 or I-5 corridors; for purposes of this analysis, they are assumed to connect to the SR 99 Elevated Median Alternative.

Federal Way Transit Extension

Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

Level 1 Evaluation Results

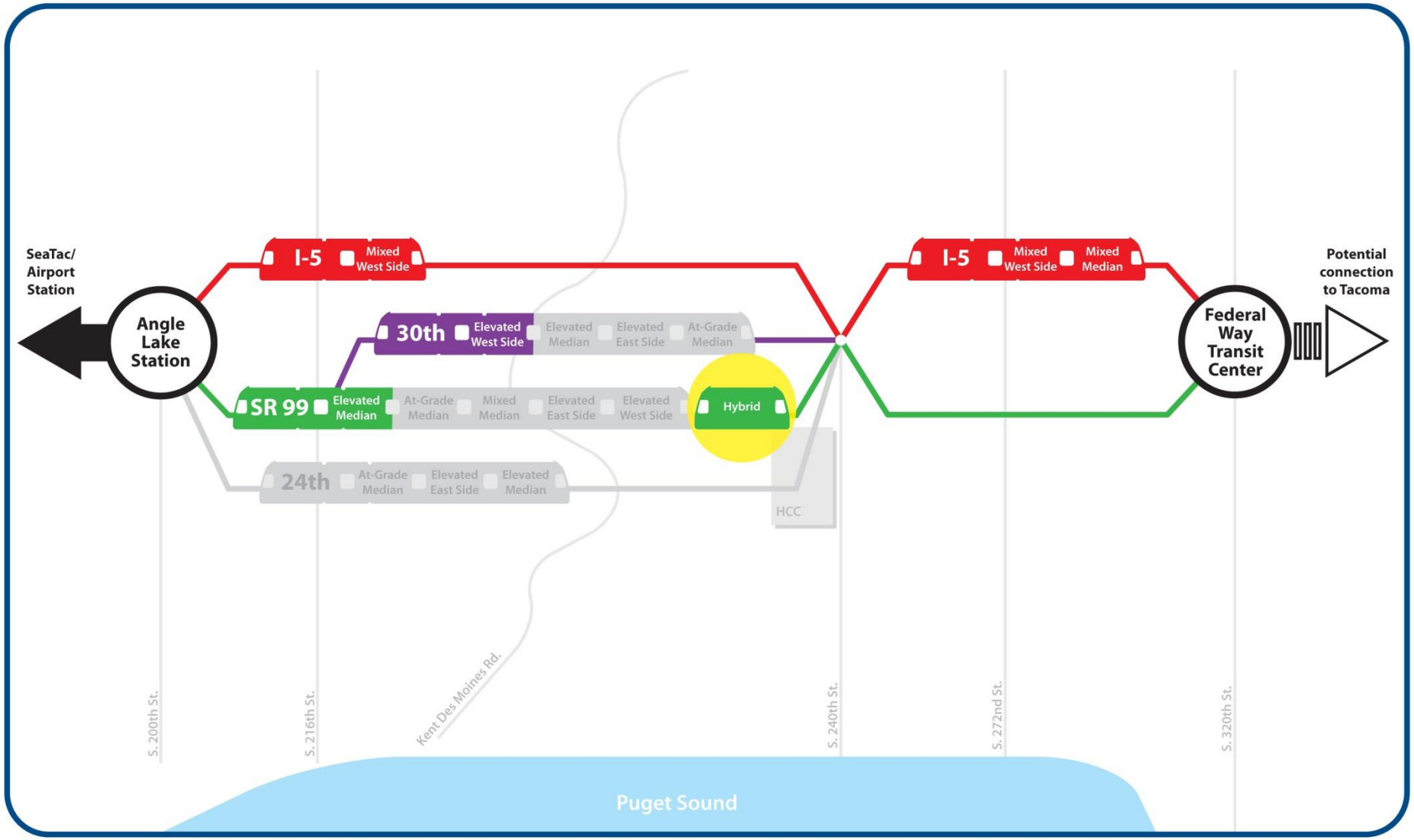


Federal Way Transit Extension

Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

Level 1 Evaluation Results

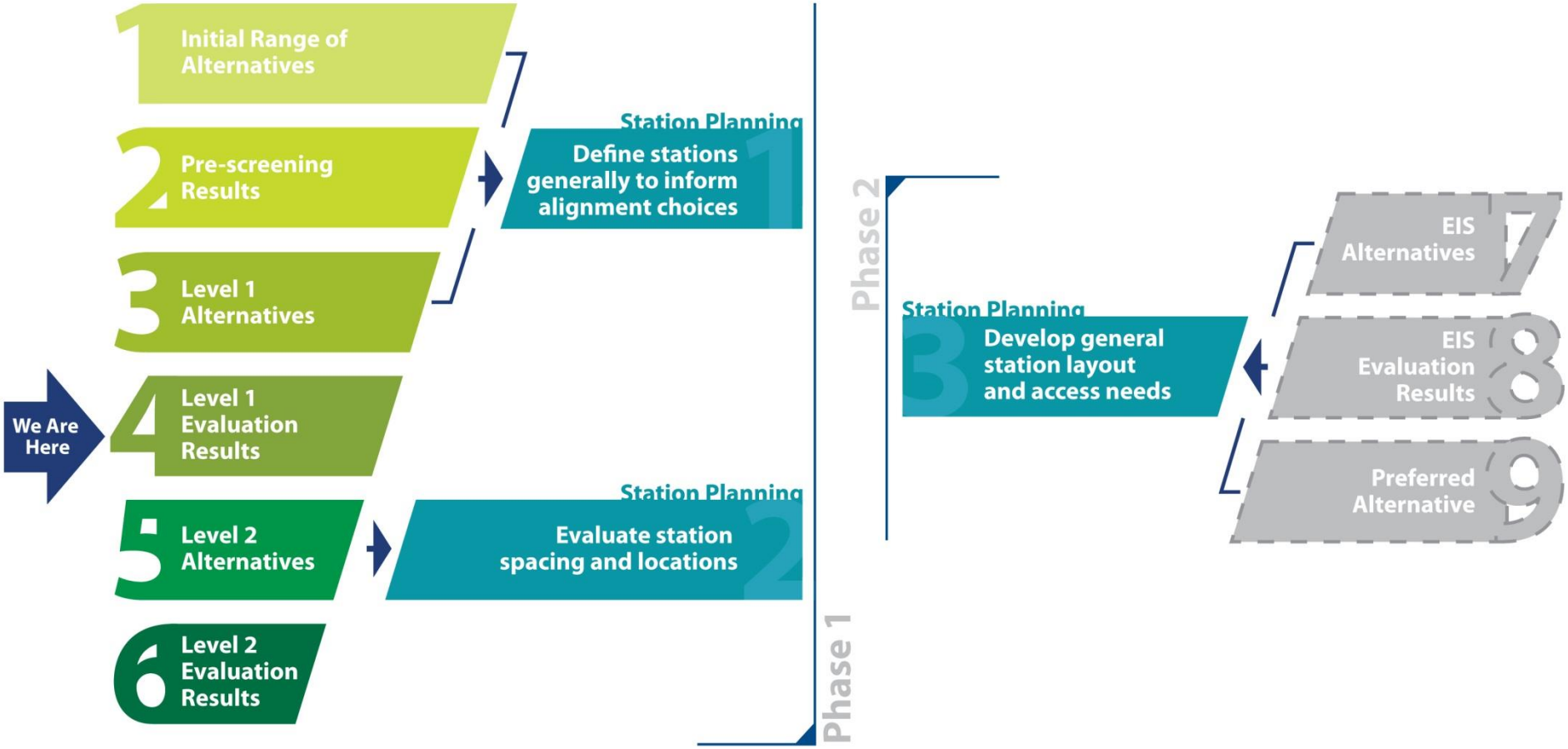


Federal Way Transit Extension

Alternatives Analysis Update

SOUNDTRANSIT
RIDE THE WAVE

Station Planning Process



SOUNDTRANSIT
RIDE THE WAVE